

**COATING COMPOSITIONS COMPRISING SILYL BLOCKED  
COMPONENTS, COATINGS, COATED SUBSTRATES  
AND METHODS RELATED THERETO**

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**ABSTRACT**

Coating compositions formed from at least one hydroxyl functional non-  
vinyl material comprising at least one alcoholic hydroxyl group blocked with a  
hydrolyzable silyl group, and at least one curing agent are provided by the  
present invention. Another embodiment of the present invention is directed to a  
10 coating composition formed from components comprising at least one  
carbamate functional material comprising at least one carbamate group  
blocked with a hydrolyzable silyl group, and at least one curing agent. Another  
embodiment of the present invention is directed to a coating composition  
formed from components comprising at least one carboxyl functional material  
15 comprising at least one carboxyl group blocked with a hydrolyzable silyl group,  
and at least one curing agent. Another embodiment of the present invention is  
directed to a coating composition formed from components comprising at least  
one amide functional material comprising at least one amide blocked with a  
hydrolyzable silyl group, and at least one curing agent. Other embodiments of  
20 the present invention are directed to substrates coated with the aforementioned  
cured compositions. Also provided are multi-component composite coatings  
which include a cured basecoat deposited from a pigmented coating  
composition and a cured topcoat deposited from a topcoating composition.  
The multi-component composite coatings of the invention provide highly  
25 scratch resistant color-plus-clearcoatings. Further embodiments of the present  
invention are directed to methods for improving scratch resistance of a  
substrate.